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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/492,454	01/27/2000	Xiaowen Yang	YANG I	9889
7590 07/24/2007 William H Bollman			EXAMINER	
MANELLI DENISON & SELTER PLLC 2000 M Street NW Suite 700			MOORTHY, ARAVIND K	
			ART UNIT	PAPER NUMBER
Washington, DC 20036-3307			2131	
		•	MAN DATE	DEL IVERY MODE
			MAIL DATE	DELIVERY MODE
•			07/24/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	09/492,454	YANG, XIAOWEN				
Office Action Summary	Examiner	Art Unit				
	Aravind K. Moorthy	2131				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
<u> </u>	Responsive to communication(s) filed on <u>02 May 2007</u> .					
,	· —					
,—	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-8 and 10-22</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 1-8 and 10-22 is/are rejected.						
7) Claim(s) is/are objected to.	r election requirement					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>27 January 2000</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

1. This is in response to the RCE filed on 2 May 2007.

2. Claims 1-22 are pending in the application.

3. Claims 1-8 and 10-22 have been rejected.

4. Claim 9 has been cancelled.

Continued Examination Under 37 CFR 1.114

5. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible

for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been

timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR

1.114. Applicant's submission filed on 2 May 2007 has been entered.

Response to Arguments

6. Applicant's arguments with respect to claims 1-22 have been considered but are moot in view of the new ground(s) of rejection.

ς,

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 1-8 and 10-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamada U.S. Patent No. 6,754,347 BI in view of Norr U.S. Patent No. 7,085,377 B1.

As to claim 1, Hamada discloses a device to descramble a packetized digital data stream, comprising:

the packet including a header portion and a data payload, the data payload including a scrambled central portion and an unscrambled portion [column 7, lines 54-65]; and

a descrambler to descramble the scrambled central portion of the data payload of the packet [column 10, lines 18-24];

wherein the header portion is unscrambled [column 7, lines 54-65].

Hamada does not teach a receiver to receive a packet of a single digital data stream wherein only some of a plurality of data packets within the single digital data stream are scrambled.

Norr teaches selectively encrypting some of the packets [column 4, lines 29-62].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Hamada so that the packets containing the premium channels would have only been encrypted. The packets would have included a header

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portion and a data payload. The data payload would have included a scrambled central portion and an unscrambled portion. A descrambler would have descrambled the scrambled central portion of the data payload of the packet. The header portion would have been entirely unscrambled.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Hamada by the teaching of Norr because it helps avoid unnecessary downloading of information already transmitted via broadcast airwaves, while also ensuring that copyright owners and service providers receive appropriate payments [column 2, lines 40-49].

As to claim 2, Hamada teaches that the scrambled central portion of the data payload is at a location within the payload portion of the packet such that the scrambled central portion is preceded and succeeded by the unscrambled portion [column 7, lines 54-65].

As to claims 3, 11, 16, 18, 20 and 22, Hamada teaches that the digital data stream is an MPEG-2 digital data stream [column 7, lines 54-65].

As to claim 4, Hamada teaches that the packet contains compressed digital data [column 7, lines 54-65].

As to claim 5, Hamada teaches that the compressed digital data includes a video signal [column 3 line 66 to column 4 line 6].

As to claim 6, Hamada teaches that the compressed digital data includes an audio signal [column 3 line 66 to column 4 line 6].

As to claim 7, Hamada teaches that the compressed digital data includes a video signal and an audio signal [column 3 line 66 to column 4 line 6].

As to claim 8, Hamada teaches a method of scrambling a packetized digital data stream, comprising;

producing a single data packet stream comprising a plurality of data packets [column 7, lines 54-65]; and

scrambling a first central portion of a data payload of some of the plurality of data packets within the single data packet stream without scrambling the header and a second portion of the data payload of the packets [column 7, lines 54-65].

Hamada does not teach a receiver to receive a packet of a digital data stream wherein only some of a plurality of data packets within the digital data stream are scrambled.

Norr teaches selectively encrypting some of the packets [column 4, lines 29-62].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Hamada so that the packets containing the premium channels would have only been encrypted. The packets would have included a header portion and a data payload. The data payload would have included a scrambled central portion and an unscrambled portion. A descrambler would have descrambled the scrambled central portion of the data payload of the packet. The header portion would have been entirely unscrambled.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Hamada by the teaching of Norr because it helps avoid unnecessary downloading of information already transmitted via broadcast airwaves, while also ensuring that copyright owners and service providers receive appropriate payments [column 2, lines 40-49].

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As to claim 10, Hamada teaches a method of scrambling a packetized digital data stream, comprising:

producing a single data packet stream comprising a plurality of data packets [column 7, lines 54-65]; and

scrambling only a central portion of a data payload every nth one of the plurality of data packets of the single data packet stream, where n is an integer greater than 1 [column 7, lines 54-65].

Hamada does not teach a receiver to receive a packet of a digital data stream wherein only some of a plurality of data packets within the digital data stream are scrambled.

Norr teaches selectively encrypting some of the packets [column 4, lines 29-62].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Hamada so that the packets containing the premium channels would have only been encrypted. The packets would have included a header portion and a data payload. The data payload would have included a scrambled central portion and an unscrambled portion. A descrambler would have descrambled the scrambled central portion of the data payload of the packet. The header portion would have been entirely unscrambled.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Hamada by the teaching of Norr because it helps avoid unnecessary downloading of information already transmitted via broadcast airwaves, while also ensuring that copyright owners and service providers receive appropriate payments [column 2, lines 40-49].

As to claim 12, Hamada teaches compressed video data [column 3 line 66 to column 4 line 6].

As to claim 13, Hamada teaches compressed audio data [column 3 line 66 to column 4 line 6].

As to claim 14, Hamada teaches compressed video data and compressed audio data [column 3 line 66 to column 4 line 6].

As to claim 15, Hamada teaches a method of descrambling a packetized digital data stream, comprising:

> receiving a data packet stream comprising a plurality of data packets [column 7, lines 54-65]; and

> descrambling only a central portion of a data payload of every one of the plurality of data packets in the single data packet stream [column 10, lines 18-24].

Hamada does not teach descrambling every nth packet, where n is an integer greater than 1, leaving remaining ones of the plurality of data packets as received.

Norr teaches descrambling every nth packet, where n is an integer greater than 1, leaving remaining ones of the plurality of data packets as received [column 4, lines 29-62].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Hamada so that only the central portion of every nth packet, where n was an integer greater than 1, would have been decrypted and the leaving the remaining ones.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Hamada by the teaching of Norr because it helps avoid

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unnecessary downloading of information already transmitted via broadcast airwaves, while also ensuring that copyright owners and service providers receive appropriate payments [column 2, lines 40-49].

As to claim 17, Hamada teaches an apparatus for scrambling a packetized digital data stream, comprising:

producing a single data packet stream comprising a plurality of data packets [column 7, lines 54-65]; and

scrambling a first central portion of a data payload of the plurality of data packets within the single data packet stream and without scrambling a header and a second portion of the data payload of the plurality of data packets [column 7, lines 54-65].

Hamada does not teach a receiver to receive a packet of a digital data stream wherein only some of a plurality of data packets within the digital data stream are scrambled.

Norr teaches selectively encrypting some of the packets [column 4, lines 29-62].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Hamada so that the packets containing the premium channels would have only been encrypted. The packets would have included a header portion and a data payload. The data payload would have included a scrambled central portion and an unscrambled portion. A descrambler would have descrambled the scrambled central portion of the data payload of the packet. The header portion would have been entirely unscrambled.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Hamada by the teaching of Norr because it helps avoid unnecessary downloading of information already transmitted via broadcast airwaves, while also ensuring that copyright owners and service providers receive appropriate payments [column 2, lines 40-49].

As to claim 19, Hamada teaches an apparatus for scrambling a packetized digital data stream, comprising: producing a data packet stream comprising:

a plurality of data packets [column 7, lines 54-65]; and scrambling only a central portion of the plurality of data packets [column 7, lines 54-65].

Hamada does not teach a receiver to receive a packet of a digital data stream wherein only some of a plurality of data packets within the digital data stream are scrambled.

Norr teaches selectively encrypting some of the packets [column 4, lines 29-62].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Hamada so that the packets containing the premium channels would have only been encrypted. The packets would have included a header portion and a data payload. The data payload would have included a scrambled central portion and an unscrambled portion. A descrambler would have descrambled the scrambled central portion of the data payload of the packet. The header portion would have been entirely unscrambled.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Hamada by the teaching of Norr because it helps avoid

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unnecessary downloading of information already transmitted via broadcast airwaves, while also ensuring that copyright owners and service providers receive appropriate payments [column 2, lines 40-49].

As to claim 21, Hamada teaches an apparatus for descrambling a packetized digital data stream, comprising:

receiving a single data packet stream comprising a plurality of data packets [column 7, lines 54-65]; and

descrambling only a central portion the plurality of data packets [column 10, lines 18-24].

Hamada does not teach descrambling every nth packet, where n is an integer greater than 1, leaving remaining ones of the plurality of data packets as received.

Norr teaches descrambling every nth packet, where n is an integer greater than 1, leaving remaining ones of the plurality of data packets as received [column 4, lines 29-62].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Hamada so that only the central portion of every nth packet, where n was an integer greater than 1, would have been decrypted and the leaving the remaining ones.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Hamada by the teaching of Norr because it helps avoid unnecessary downloading of information already transmitted via broadcast airwaves, while also ensuring that copyright owners and service providers receive appropriate payments [column 2, lines 40-49].

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Conclusion

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Aravind K. Moorthy whose telephone number is 571-272-3793.

The examiner can normally be reached on Monday-Friday, 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Aravind K Moorthy

July 16, 2007

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